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Notification of Reason for Refusal

Patent Application Number: Patent Application No.11-309718

Drafting Date: October 19, 2006

Examiner of JPO: TAKEMURA, Hideyasu 3524 3W00

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Applied Provision: Patent Law Section 29(2)

This application should be refused for the reason mentioned below. If the applicant has any argument against the reason, such argument should be submitted within 60 days from the date on which this notification was dispatched.

Reasons

The inventions in the claims listed below of the subject application should not be granted a patent under the provision of Patent Law Section 29(2), since the inventions could have easily been made by persons who have common knowledge in the technical field to which the inventions pertain, on the basis of the inventions described in the publications listed below

which were distributed in Japan or foreign countries prior to the filing of the subject application.

Note (The list of cited documents etc., is shown below.)

(With regard to the invention in claim 1)

Cited documents 1 and 2

Remark:

Comparing the invention set forth in claim 1 of this application with the invention described in the cited document 1, both are different in the under mentioned points, and identified in the remaining points.

The invention in claim 1 of this application manufactures a caliper body through a gravity casting process by means of a cavity which provides a pouring gate in the bottom of a cylinder, and disposes a side of forming the bottom of the cylinder above a vertical direction and a side of forming a reaction force pawl under the vertical direction. On the other hand, the invention described in the cited document 1 does not show such a structure (called as "Different point 1" hereafter).

Making a study on the above Different point 1, the cited document 2 show the gravity casting process which performs a smooth charging of a molten metal for producing cast products without defects.

In the cited document 1, the pouring gate is provided

at the upper portion of a center rib 30, but which place of the caliper body is determined at for providing the pouring gate is a matter appropriately selected by the one skilled in this concerned technical field in response to situations, and any especial difficulty cannot be recognized in building such a structure.

(With regard to the invention in claim 2)

Cited documents 1 and 2

Remark:

The optimization or the idealization of percentage through such as experiments are an exhibition of an ordinary creative ability of the one skilled. In the invention in claim 2 of this application, the numerical limitation cannot be acknowledged as having a critical significance.

(With regard to the invention in claim 3)

Cited documents 1 to 3

Remark:

Refer to the cited document 3 (in particular, [Claim 1]).

(With regard to the invention in claim 4)

Cited documents 1 and 2

Remark:

Comparing the invention set forth in claim 4 of this

application with the invention described in the cited document 1, both are different in the under mentioned points, and identified in the remaining points.

The invention in claim 4 of this application carries out the casting through the gravity casting process by means of the cavity which disposes the side of forming the bottom of the cylinder above the vertical direction and the side of forming the reaction force pawl under the vertical direction. On the other hand, the invention described in the cited document 1 does not show such a structure (called as "Different point 2" hereafter).

Making the study on the above Different point 2, the cited document 2 show the gravity casting process which performs the smooth charging of the molten metal for producing cast products without defects.

In the cited document 1, the pouring gate is provided at the upper portion of the center rib 30, but which place of the caliper body is determined at for providing the pouring gate is the matter appropriately selected by the one skilled in response to situations, and any especial difficulty cannot be recognized in building such a structure.

(With regard to the invention in claim 5)

Cited documents 1, 2 and 4

Remark:

With regard to the cylinder formed with a union for introducing a braking liquid at a center of the bottom, refer to the cited document 4 (in particular, Paragraph [0011], and Figures 1 and 3).

Further, the common use itself of a hole formed in an article as the pouring gate is a conventionally known technique, and any especial difficulty cannot be recognized in building such a structure (if necessary, refer to Paragraph [0022] of CD-ROM of Utility Model Application No.04-055184 (JP-UM-06-009561)).

(With regard to the inventions in claims 6 and 7)

Cited documents 1, 2 and 4

Remark:

The optimization or the idealization of percentage through such as experiments are exhibitions of the ordinary creative ability of the one skilled. In the invention in claim 2 of this application, the numerical limitation cannot be acknowledged as having the critical significance.

(With regard to the invention in claim 8)

Cited documents 1, 2, 4 and 5

Remark:

Refer to the cited document 5 (in particular, Figures 1 and 2).

(With regard to the invention in claim 9)

Cited documents 1 to 3

Remark:

Refer to the cited document 3 (in particular, [Claim 1]).

The list of cited documents

1. JP-A-62-270835
2. JP-A-56-17160
3. JP-A-08-210394
4. JP-A-10-184746
5. JP-A-07-208514

<Suggestion for amendment and others>

(1) In case of having amended the description of the specification, the part or parts having changed the description by the amendment should be underlined (Remark 6 of Form 13 of Regulations under the Patent Law).

(2) Amendments must be made within the scope of the matters self-evident from the originally filed specification or the drawings of the subject application other than the matters described in the originally filed specification or the drawings of this application. For amending the description, a reason or reasons for the amendment being lawful should be asserted

with respect to each of the amended matters in the written argument by explicitly showing the grounded described part(s) of the originally filed specification. (With respect to the description of the written argument, refer to the description form of demand for correction in trial for invalidation.)

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Record of the result of prior art search

Searched Field          F16D49/00 - 71/04

Prior Art Technical Documents: Non

This record is not a component of the reason for refusal.

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If you wish to inquire about the rejecting reason, or you wish personal interview with the Examiner, please contact the under mentioned.

The Examination 2nd Section of JPO

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